Name of Work: Improvements to Roads and Asphalting at Muninagappa layout Surrounding area Dasarahalli Village In Ward No.06 Thanisandra Byatarayanapura Sub Division

006 - 20 - 000178

1st & Final.

K.S. Chowda Reddy.

EMB

"FIRST AND FINAL BILL"

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ame of Work: Improvements to Roads and Asphalting at Muninagappa layout Surrounding area Dasarahalli Village In Ward No.06 Thanisandra Byatarayanapura Sub Division

PRE-MEASUREMENT SHEETS

"FIRST AND FINAL BILL"

Scanned by CamScanner

Name of Work: Improvements to Roads and Asphalting at Muninagappa layout Surrounding area Dasarahalli Village In Ward No.06 Thanisandra Byatarayanapura Sub Division

-1-

Detailed Measurements

easurement Recorded On:

em lo	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3						
	Muninagappa Layout						
	CC Drain						
	Kohinoor Mens Parlour Beside Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch: 30.00m to 36.50m	1	6.50	1.10	1.00	7.15	
	SLNSK Enterprises Rd						
	RHS						
	Ch: 0.00m to 28.00m	1	28.00	1.10	1.00	30.80	
	Sri Muneshwaera Swamya Nilaya Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch: 30.00m to 35.00m	1	5.00	1.10	1.00	5.50	
	F T Thomas House Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch: 30.00m to 35.60m	1	5.60	1.10	1.00	6.16	
	Cross Rd-1						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch: 30.00m to 54.50m	1	24.50	1.10	1.00	26.95	
	Cross Rd-2						
	LHS						
	Ch: 0.00m to 26.00m	1	26.00	1.10	1.00	28.60	
	Cross Rd3- from end						
	RHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch: 30.00m to 59.70m	1	29.70	1.10	1.00	32.67	
	Muninagappa Layout Main Rd from end						
	RHS						
	Ch: 0.00m to 24.60m	1	24.60	1.10	1.00	27.06	
	Rd Gap		4.20				
	Ch: 28.80m to 54.00m	1	25.20	1.10	1.00	27.72	
	Culvert Gap		5.00				
	Ch: 59.00m to 84.50m	1	25.50	1.10	1.00	28.05	

CFC 9/3/2024

385.66

S. Choudhary
or

09.03.2024
Asst. Engineer

Asst. Exec. Engineer

Scanned by CamScanner

m o	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Culvert Gap		5.10				
	Ch: 89.60m to 101.80m	1	12.20	1.10	1.00	13.42	
	Ch: 101.80m to 114.10m	1	12.30	1.10	1.00	13.53	
	Culvert Gap		6.10				
	Ch: 120.20m to 145.80m	1	25.60	1.10	1.00	28.16	
	Culvert Gap		5.7				
	Ch: 151.50m to 161.20m	1	9.7	1.00	1.00	9.70	
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch: 30.00m to 60.00m	1	30.00	1.10	1.00	33.00	
	Ch: 60.00m to 90.00m	1	30.00	1.10	1.00	33.00	
	Ch: 90.00m to 120.00m	1	30.00	1.10	1.00	33.00	
	Ch: 120.00m to 132.00m	1	12.00	1.00	1.00	12.00	
	Main Rd						
	Ch: 0.00m to 30.00m	1	30.00	1.10	1.00	33.00	
	Ch: 30.00m to 35.50m	1	5.50	1.10	1.00	6.05	
	Culvert					C/FC	
	Kohinoor Mens Parlour Beside Rd	1	5.50	1.50	1.10	9.08	9/3/24
	SLNSK Enterprises Rd	1	5.40	1.50	1.10	8.91	
	Sri Muneshwaera Swamya Nilaya Rd	1	5.50	1.50	1.10	9.08	
	F T Thomas House Rd	1	6.40	1.50	1.10	10.56	
	Cross Rd3- from end	1	6.00	1.50	1.10	9.90	
	Main Rd	1	5.00	1.50	1.10	8.25	
		1	5.20	1.50	1.10	8.58	
		1	5.00	1.50	1.10	8.25	320.46
					Present Qty	**706.12**	**Cum**

Asst. Engineer

09.03.2024

Scanned by CamScanner

Name of Work: Improvements to Roads and Asphalting at Muninagappa layout Surrounding area Dasarahalli Village In Ward No.06 Thanisandra Byatarayanapura Sub Division

-3-

Detailed Measurements

asurement Recorded On:

m o	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100						
	Muninagappa Layout						
	CC Drain						
	Kohinoor Mens Parlour Beside Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 36.50m	1	6.50	1.10	0.15	1.07	
	SLNSK Enterprises Rd						
	RHS						
	Ch: 0.00m to 28.00m	1	28.00	1.10	0.15	4.62	
	Sri Muneshwaera Swamya Nilaya Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 35.00m	1	5.00	1.10	0.15	0.83	
	F T Thomas House Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 35.60m	1	5.60	1.10	0.15	0.92	
	Cross Rd-1						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 54.50m	1	24.50	1.10	0.15	4.04	
	Cross Rd-2						
	LHS						
	Ch: 0.00m to 26.00m	1	26.00	1.10	0.15	4.29	
	Cross Rd3- from end						
	RHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 59.70m	1	29.70	1.10	0.15	4.90	
	Muninagappa Layout Main Rd from end						
	RHS						
	Ch: 0.00m to 24.60m	1	24.60	1.10	0.15	4.06	
	Rd Gap		4.20				
	Ch: 28.80m to 54.00m	1	25.20	1.10	0.15	4.16	

CBF 15/3/24

53.64

.Chowdareddy
actor

Asst. Engineer

Asst. Exec. Engineer

Scanned by CamScanner

m o	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Culvert Gap		5.00				
	Ch: 59.00m to 84.50m	1	25.50	1.10	0.15	4.21	
	Culvert Gap		5.10				
	Ch: 89.60m to 101.80m	1	12.20	1.10	0.15	2.01	
	Ch: 101.80m to 114.10m	1	12.30	1.10	0.15	2.03	
	Culvert Gap		6.10				
	Ch: 120.20m to 145.80m	1	25.60	1.10	0.15	4.22	
	Culvert Gap		5.7				
	Ch: 151.50m to 161.20m	1	9.7	1.10	0.15	1.60	
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 60.00m	1	30.00	1.10	0.15	4.95	
	Ch: 60.00m to 90.00m	1	30.00	1.10	0.15	4.95	
	Ch: 90.00m to 120.00m	1	30.00	1.10	0.15	4.95	
	Ch: 120.00m to 132.00m	1	12.00	1.10	0.15	1.98	
	Main Rd						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 35.50m	1	5.50	1.10	0.15	0.91	
	Culvert						
	Kohinoor Mens Parlour Beside Rd	1	5.50	1.50	0.15	1.24	
	SLNSK Enterprises Rd	1	5.40	1.50	0.15	1.22	
	Sri Muneshwaera Swamya Nilaya Rd	1	5.50	1.50	0.15	1.24	
	F T Thomas House Rd	1	6.40	1.50	0.15	1.44	
	Cross Rd3- from end	1	6.00	1.50	0.15	1.35	
	Main Rd	1	5.00	1.50	0.15	1.13	
		1	5.20	1.50	0.15	1.17	
		1	5.00	1.50	0.15	1.13	
	CC Road						
	Muninagappa Layout						
	Kohinoor Mens Parlour Beside Rd						
	Ch: 0.00m to 30.00m	1	30.00	(5.70 + 5.05)/2	0.15	24.19	
	Ch: 30.00m to 37.00m	1	7.00	(5.05 + 5.00)/2	0.15	5.28	
	SLNSK Enterprises Rd						
	Ch: 0.00m to 30.00m	1	30.00	(5.00 + 5.30)/2	0.17	26.27	
	Ch: 30.00m to 36.50m	1	6.50	(5.30 + 5.20)/2	0.15	5.12	
	Sri Muneshwaera Swamya Nilaya Rd						
	Ch: 0.00m to 30.00m	1	30.00	(5.00 + 5.00)/2	0.15	22.50	
	Ch: 30.00m to 35.00m	1	5.00	(5.00 + 5.10)/2	0.15	3.79	

158.75

Chowdareddy

Asst. Engineer

Asst. Exec. Engineer

Scanned by CamScanner

Discription of Item	No	Length	Breadth			Depth	Qty	Unit
F T Thomas House Rd								
Ch: 0.00m to 30.00m	1	30.00	5.10	+	5.10 / 2	0.15	22.95	
Ch: 30.00m to 36.00m	1	6.00	5.10	+	5.00 / 2	0.15	4.55	
Cross Rd-1								
Ch: 0.00m to 30.00m	1	30.00	3.90	+	3.80 / 2	0.15	17.33	
Ch: 30.00m to 41.00m	1	11.00	3.80	+	5.80 / 2	0.15	7.92	
Ch: 41.00m to 63.00m	1	22.00	5.80	+	6.60 / 2	0.15	20.46	
Ch: 63.00m to 72.00m	1	9.00	2.90	+	2.60 / 2	0.15	3.71	
Cross Rd3- from end								
Ch: 0.00m to 19.40m	1	19.40	5.20	+	4.50 / 2	0.15	14.11	
Ch: 19.40m to 20.70m	1	1.30	2.00	+	2.00 / 2	0.18	0.47	
Ch: 20.70m to 50.70m	1	30.00	4.10	+	3.30 / 2	0.15	16.65	
Ch: 50.70m to 56.70m	1	6.00	3.50	+	3.30 / 2	0.15	3.06	
						Present Qty	**303.59**	**Cum**

S. Chowdareddy
ictor

Asst. Engineer
10.01.2022

Asst. Exec. Engineer
10/1/2022

Scanned by CamScanner

Name of Work: Improvements to Roads and Asphalting at Muninagappa layout Surrounding area Dasarahalli Village In Ward No.06 Thanisandra Byatarayanapura Sub Division

Detailed Measurements

surement Recorded On:

n	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom						
	Muninagappa Layout						
	CC Drain Raft						
	Kohinoor Mens Parlour Beside Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 36.50m	1	6.50	1.10	0.15	1.07	
	SLNSK Enterprises Rd						
	RHS						
	Ch: 0.00m to 28.00m	1	28.00	1.10	0.15	4.62	
	Sri Muneshwaera Swamya Nilaya Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 35.00m	1	5.00	1.10	0.15	0.83	
	F T Thomas House Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 35.60m	1	5.60	1.10	0.15	0.92	
	Cross Rd-1						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 54.50m	1	24.50	1.10	0.15	4.04	
	Cross Rd-2						
	LHS						
	Ch: 0.00m to 26.00m	1	26.00	0.90	0.15	3.51	
	Cross Rd3- from end						
	RHS						
	Ch: 0.00m to 30.00m	1	30.00	1.10	0.15	4.95	
	Ch: 30.00m to 59.70m	1	29.70	1.10	0.15	4.90	
	Muninagappa Layout Main Rd from end						
	RHS						
	Ch: 0.00m to 24.60m	1	24.60	1.10	0.15	4.06	
	Rd Gap		4.20				
	Ch: 28.80m to 54.00m	1	25.20	1.10	0.15	4.16	
	Culvert Gap		5.00			52.86	

CTFC 28/4/2021

Chowdareddy
tor

28.04.2021
Asst. Engineer

28/4/21
Asst. Exec. Engineer

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch: 59.00m to 84.50m	1	25.50	0.90	0.15	3.44	
Culvert Gap		5.10				
Ch: 89.60m to 101.80m	1	12.20	0.90	0.15	1.65	
Ch: 101.80m to 114.10m	1	12.30	0.90	0.15	1.66	
Culvert Gap		6.10				
Ch: 120.20m to 145.80m	1	25.60	0.90	0.15	3.46	
Culvert Gap		5.7				
Ch: 151.50m to 161.20m	1	9.7	0.90	0.15	1.31	
LHS						
Ch: 0.00m to 30.00m	1	30.00	0.90	0.15	4.05	
Ch: 30.00m to 60.00m	1	30.00	0.90	0.15	4.05	
Ch: 60.00m to 90.00m	1	30.00	0.90	0.15	4.05	
Ch: 90.00m to 120.00m	1	30.00	0.90	0.15	4.05	
Ch: 120.00m to 132.00m	1	12.00	0.90	0.15	1.62	
Main Rd						
Ch: 0.00m to 30.00m	1	30.00	0.90	0.15	4.05	
Ch: 30.00m to 35.50m	1	5.50	0.90	0.15	0.74	
CC Drain Wall						
Kohinoor Mens Parlour Beside Rd						
LHS						
Ch: 0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
Ch: 30.00m to 36.50m	2	6.50	0.15	0.60	1.17	
SLNSK Enterprises Rd						
RHS						
Ch: 0.00m to 28.00m	2	28.00	0.15	0.60	5.04	
Sri Muneshwaera Swamya Nilaya Rd						
LHS						
Ch: 0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
Ch: 30.00m to 35.00m	2	5.00	0.15	0.60	0.90	
F T Thomas House Rd						
LHS						
Ch: 0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
Ch: 30.00m to 35.60m	2	5.60	0.15	0.67	1.13	
Cross Rd-1						
LHS						
Ch: 0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
Ch: 30.00m to 54.50m	2	24.50	0.15	0.60	4.41	
Cross Rd-2						
LHS						
Ch: 0.00m to 26.00m	2	26.00	0.15	0.60	4.68	
Cross Rd3- from end						
RHS						
Ch: 0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
Ch: 30.00m to 59.70m	2	29.70	0.15	0.60	5.35	

28.04.2024

10/5/2024

10.05.2024

Asst. Engineer

Asst. Exec. Engineer

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Muninagappa Layout Main Rd from end						
RHS						
Ch: 0.00m to 24.60m	2	24.60	0.15	0.60	4.43	
Rd Gap		4.20				
Ch: 28.80m to 54.00m	2	25.20	0.15	0.60	4.54	
Culvert Gap		5.00				
Ch: 59.00m to 84.50m	2	25.50	0.15	0.60	4.59	
Culvert Gap		5.10				
Ch: 89.60m to 101.80m	2	12.20	0.15	0.60	2.20	
Ch: 101.80m to 114.10m	2	12.30	0.15	0.60	2.21	
Culvert Gap		6.10				
Ch: 120.20m to 145.80m	2	25.60	0.15	0.65	4.99	
Culvert Gap		5.70				
Ch: 151.50m to 161.20m	2	9.70	0.15	0.65	1.89	
LHS						
Ch: 0.00m to 30.00m	2	30.00	0.17	0.60	6.12	
Ch: 30.00m to 60.00m	2	30.00	0.15	0.60	5.40	
Ch: 60.00m to 90.00m	2	30.00	0.15	0.60	5.40	
Ch: 90.00m to 120.00m	2	30.00	0.15	0.60	5.40	
Ch: 120.00m to 132.00m	2	12.00	0.15	0.60	2.16	
Main Rd						
Ch: 0.00m to 30.00m	2	30.00	0.15	0.60	5.40	
Ch: 30.00m to 35.50m	2	5.50	0.15	0.60	0.99	
Culvert Raft						
Kohinoor Mens Parlour Beside Rd	1	5.50	1.20	0.15	0.99	
SLNSK Enterprises Rd	1	5.40	1.20	0.15	0.97	
Sri Muneshwaera Swamya Nilaya Rd	1	5.50	1.20	0.15	0.99	
F T Thomas House Rd	1	6.40	1.20	0.15	1.15	
Cross Rd3- from end	1	6.00	1.20	0.15	1.08	
Main Rd	1	5.00	1.20	0.15	0.90	
	1	5.20	1.20	0.15	0.94	
	1	5.00	1.20	0.15	0.90	
Culvert Wall						
Kohinoor Mens Parlour Beside Rd	2	5.50	0.23	0.45	1.14	
SLNSK Enterprises Rd	2	5.40	0.23	0.45	1.12	
Sri Muneshwaera Swamya Nilaya Rd	2	5.50	0.23	0.45	1.14	
F T Thomas House Rd	2	6.40	0.23	0.45	1.32	
Cross Rd3- from end	2	6.00	0.23	0.45	1.24	
Main Rd	2	5.00	0.23	0.45	1.04	
	2	5.20	0.23	0.45	1.08	
	2	5.00	0.23	0.45	1.04	
	2 × 5.40 × 2.3 × 0.45 = 0.79 2 × 5.40 × 2.3 × 0.45 = 1.12			**Present Qty**	**209.41**	**Cum**

S. Choudareddy
actor

Asst. Engineer

Asst. Exec. Engineer

Scanned by CamScanner

Name of Work: Improvements to Roads and Asphalting at Muninagappa layout Surrounding area Dasarahalli Village In Ward No.06 Thanisandra Byatarayanapura Sub Division

-9-

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
4	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200-do- TMT Bars Fe 500						
	RCC Drain						
	Muninagappa Layout						
	Kohinoor Mens Parlour Beside Rd						
	LHS						
	Total Drain Length=36.50m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=317	317	2.30		0.61	444.75	
	No of distrubution Bars=19	19	36.50		0.61	423.04	
	SLNSK Enterprises Rd						
	RHS						
	Total Drain Length=28.00m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=243	243	2.30		0.61	340.93	
	No of distrubution Bars=19	19	28.00		0.61	324.52	
	Sri Muneshwaera Swamya Nilaya Rd						
	LHS						
	Total Drain Length=35.00m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=304	304	2.30		0.61	426.51	
	No of distrubution Bars=19	19	35.00		0.61	405.65	
	F T Thomas House Rd						
	LHS					2365.40	

C&F C
20/4/2024

-chowdareddy
actor

Asst. Engineer

20/4/2024

Asst. Exec. Engineer

Scanned by CamScanner

tem No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Total Drain Length=35.60m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=309	309	2.30		0.61	433.53	
	No of distrubution Bars=19	19	35.60		0.61	412.60	
	Cross Rd-1						
	LHS						
	Total Drain Length=54.50m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=473	473	2.30		0.61	663.62	
	No of distrubution Bars=19	19	54.50		0.61	631.66	
	Cross Rd-2						
	LHS						
	Total Drain Length=26.00m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=226	226	2.30		0.61	317.08	
	No of distrubution Bars=19	19	26.00		0.61	301.34	
	Cross Rd3- from end						
	RHS						
	Total Drain Length=59.70m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=519	519	2.30		0.61	728.16	
	No of distrubution Bars=19	18	59.70		0.61	655.51	
	Muninagappa Layout Main Rd from end						
	RHS						
	Total Drain Length=135.10m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=1200	1200	2.30		0.61	1683.60	
	No of distrubution Bars=19	15	135.10		0.61	1236.17	

7063.25

Asst. Engineer

Asst. Exec. Engineer

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Item No	Discription of item	No	Length	Breadth	Depth	Qty	Unit
	LHS						
	Total Drain Length=132.00m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=1173	1173	2.30		0.61	1645.72	
	No of distrubution Bars=19	15	132.00		0.61	1207.80	
	Main Rd						
	LHS						
	Total Drain Length=35.50m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=315	315	2.30		0.61	441.95	
	No of distrubution Bars=19	15	35.50		0.61	324.83	
	Culvert						
	Total Drain Length=44.00m						
	Main Bar 10mm dia @115mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @120mm c/c						
	d=0.61kg/m						
	No of U Bars=516	765	2.30		0.61	1073.30	
	No of distrubution Bars=38	36	44.00		0.61	966.24	
						15088.47	
					Present Qty	**15.09**	**Tn**

Contractor

Asst. Engineer

Asst. Exec. Engineer

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Work: Improvements to Roads and Asphalting at Muninagappa layout Surrounding area Dasarahalli Village In Ward No.06 Thanisandra Byatarayanapura Sub Division

Detailed Measurements

asurement Recorded On:

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301						
CC Road						
Muninagappa Layout						
Kohinoor Mens Parlour Beside Rd						
Ch: 0.00m to 30.00m	1	30.00	(5.70 + 5.05)/2	0.30	48.38	
Ch: 30.00m to 37.00m	1	7.00	(5.05 + 5.00)/2	0.40	14.07	
SLNSK Enterprises Rd						
Ch: 0.00m to 30.00m	1	30.00	(5.00 + 5.30)/2	0.30	46.35	
Ch: 30.00m to 36.50m	1	6.50	(5.30 + 5.20)/2	0.30	10.24	
Sri Muneshwaera Swamya Nilaya Rd						
Ch: 0.00m to 30.00m	1	30.00	(5.00 + 5.00)/2	0.30	45.00	
Ch: 30.00m to 35.00m	1	5.00	(5.00 + 5.10)/2	0.30	7.58	
F T Thomas House Rd						
Ch: 0.00m to 30.00m	1	30.00	(5.10 + 5.10)/2	0.30	45.90	
Ch: 30.00m to 36.00m	1	6.00	(5.10 + 5.00)/2	0.40	12.06	
Cross Rd-1						
Ch: 0.00m to 30.00m	1	30.00	(3.90 + 3.80)/2	0.30	34.65	
Ch: 30.00m to 41.00m	1	11.00	(3.80 + 5.80)/2	0.30	15.84	
Ch: 41.00m to 63.00m	1	22.00	(5.80 + 6.60)/2	0.30	40.92	
Ch: 63.00m to 72.00m	1	9.00	(2.90 + 2.60)/2	0.30	7.43	
Cross Rd3- from end						
Ch: 0.00m to 19.40m	1	19.40	(5.20 + 4.50)/2	0.30	28.23	356.63

CBR 40.58 N/mm² 8/10/24

Chowdareddy

Contractor

08.10.2024

Asst.Engineer

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Ch: 19.40m to 20.70m	1	1.30	2.00 + 2.00 / 2	0.30	0.78		
Ch: 20.70m to 50.70m	1	30.00	4.10 + 3.30 / 2	0.30	33.30		
Ch: 50.70m to 56.70m	1	6.00	3.50 + 3.30 / 2	0.40	8.16		
Asphalt Road							
Muninagappa Layout Main Rd from end							
Ch: 0.00m to 6.00m	1	6.00	2.80 + 2.80 / 2	0.30	5.04	6.00	
Ch: 6.00m to 30.00m	1	24.00	5.90 + 5.50 / 2	0.30	41.04	30.00	
Ch: 30.00m to 55.00m	1	25.00	6.70 + 4.80 / 2	0.30	43.13	55.00	
Ch: 55.00m to 59.50m	1	4.50	7.00 + 7.10 / 2	0.30	9.52	59.50	
Ch: 59.50m to 89.50m	1	30.00	5.90 + 6.00 / 2	0.30	53.55	89.50	
Ch: 89.50m to 119.50m	1	30.00	6.00 + 5.40 / 2	0.30	51.30	119.50	
Ch: 119.50m to 149.50m	1	30.00	5.40 + 5.50 / 2	0.30	49.05	149.50	
Ch: 149.50m to 179.50m	1	30.00	5.50 + 5.20 / 2	0.30	48.15	179.50	
Ch: 179.50m to 192.50m	1	13.00	5.20 + 6.20 / 2	0.30	22.23	192.50	
				Present Qty	**721.87**	**Cum**	

8/10/2024

L.Chowdareddy
actor

08-10-2024
Asst.Engineer

Asst.Exec.Engineer

Scanned by CamScanner

Name of Work: Improvements to Roads and Asphalting at Muninagappa layout Surrounding area Dasarahalli Village In Ward No.06 Thanisandra Byatarayanapura Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
8	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.						
	Asphalt Road						
	Muninagappa Layout						
	Muninagappa Layout Main Rd from end						
	Ch: 0.00m to 6.00m	1	6.00	(1.30 + 1.30)/2	0.20	1.56	
	Ch: 6.00m to 30.00m	1	24.00	(1.30 + 1.20)/2	0.20	6.00	
	Ch: 30.00m to 55.00m	1	25.00	(1.20 + 1.20)/2	0.20	6.00	
	Ch: 55.00m to 59.50m	1	4.50	(1.10 + 1.40)/2	0.20	1.13	
	Ch: 59.50m to 89.50m	1	30.00	(1.20 + 1.30)/2	0.20	7.50	
	Ch: 89.50m to 119.50m	1	30.00	(1.20 + 1.20)/2	0.20	7.20	
	Ch: 119.50m to 149.50m	1	30.00	(1.20 + 1.20)/2	0.20	7.20	
	Ch: 149.50m to 179.50m	1	30.00	(1.20 + 1.20)/2	0.20	7.20	
	Ch: 179.50m to 192.50m	1	13.00	(1.20 + 1.30)/2	0.20	3.25	
					Present Qty	**47.04**	**Cum**

21/10/2024

T.S. Chandrareddy
ractor

Asst.Engineer 21.10.2024
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Asst.Exec.Engineer 21/10/24
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Scanned by CamScanner

Name of Work: Improvements to Roads and Asphalting at Muninagappa layout Surrounding area Dasarahalli Village In Ward No.06 Thanisandra Byatarayanapura Sub Division

Detailed Measurements

Measurement Recorded On:

Sl No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406						
	Asphalt Road						
	Muninagappa Layout						
	Muninagappa Layout Main Rd from end						
	Ch: 0.00m to 6.00m	1	6.00	(2.80 + 2.80)/2	0.250	4.20	
	Ch: 6.00m to 30.00m	1	24.00	(5.90 + 5.50)/2	0.250	34.20	
	Ch: 30.00m to 55.00m	1	25.00	(6.70 + 4.80)/2	0.250	35.94	
	Ch: 55.00m to 59.50m	1	4.50	(7.00 + 7.10)/2	0.260	8.25	
	Ch: 59.50m to 89.50m	1	30.00	(5.90 + 6.00)/2	0.250	44.63	
	Ch: 89.50m to 119.50m	1	30.00	(6.00 + 5.40)/2	0.250	42.75	
	Ch: 119.50m to 149.50m	1	30.00	(5.40 + 5.50)/2	0.250	40.88	
	Ch: 149.50m to 179.50m	1	30.00	(5.50 + 5.20)/2	0.250	40.13	
	Ch: 179.50m to 192.50m	1	13.00	(5.20 + 6.20)/2	0.250	18.53	
					Present Qty	**269.49**	**Cum**

8/11/2024

8/11/2024

Asst.Engineer

Asst.Exec.Engineer

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Name of Work: Improvements to Roads and Asphalting at Muninagappa layout Surrounding area Dasarahalli Village In Ward No.06 Thanisandra Byatarayanapura Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
10	KSRRB M500-6. Providing and applying primer coat with S.S.bitumen emulsion on prepared surface of granular base such as WMMincluding cleaning of road surface and spraying primer at the rate of0.60 kg / sqm using mechanical means complete as per specifications.Clause 502 of MORTH V revision						
	Asphalt Road						
	Muninagappa Layout						
	Muninagappa Layout Main Rd from end						
	Ch: 0.00m to 6.00m	1	6.00	(2.80 + 2.80)/2		16.80	
	Ch: 6.00m to 30.00m	1	24.00	(5.90 + 5.50)/2		136.80	
	Ch: 30.00m to 55.00m	1	25.00	(6.70 + 4.80)/2		143.75	
	Ch: 55.00m to 59.50m	1	4.50	(7.00 + 7.10)/2		31.73	
	Ch: 59.50m to 89.50m	1	30.00	(5.90 + 6.00)/2		178.50	
	Ch: 89.50m to 119.50m	1	30.00	(6.00 + 5.40)/2		171.00	
	Ch: 119.50m to 149.50m	1	30.00	(5.40 + 5.50)/2		163.50	
	Ch: 149.50m to 179.50m	1	30.00	(5.50 + 5.20)/2		160.50	
	Ch: 179.50m to 192.50m	1	13.00	(5.20 + 6.20)/2		74.10	
					Present Qty	**1076.68**	**Cum**

S.S.Chowdareddy
Contractor

11.03.2022
Asst.Engineer

Asst.Exec.Engineer

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